

Date: Wed, 20 Oct 93 04:30:32 PDT  
From: Ham-Space Mailing List and Newsgroup <ham-space@ucsd.edu>  
Errors-To: Ham-Space-Errors@UCSD.Edu  
Reply-To: Ham-Space@UCSD.Edu  
Precedence: Bulk  
Subject: Ham-Space Digest V93 #60  
To: Ham-Space

Ham-Space Digest                      Wed, 20 Oct 93                      Volume 93 : Issue    60

Today's Topics:

                    Keps for the Moon  
                    SAREX info?  
                    STS-58 SAREX Mission Lifts Off  
                    STS-58 SAREX status???

Send Replies or notes for publication to: <Ham-Space@UCSD.Edu>  
Send subscription requests to: <Ham-Space-REQUEST@UCSD.Edu>  
Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Ham-Space Digest are available  
(by FTP only) from UCSD.Edu in directory "mailarchives/ham-space".

We trust that readers are intelligent enough to realize that all text  
herein consists of personal comments and does not represent the official  
policies or positions of any party. Your mileage may vary. So there.

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Date: 19 Oct 1993 11:15:27 -0700  
From: munnari.oz.au!spool.mu.edu!howland.reston.ans.net!sol.ctr.columbia.edu!  
news.kei.com!ssd.intel.com!chnews!ornews.intel.com!ornews.intel.com!not-for-  
mail@network.ucsd.edu  
Subject: Keps for the Moon  
To: ham-space@ucsd.edu

garym@alsys.com (Gary Morris @ignite) writes:

>In <750600011.AA00149@afarm.uucp> Ron.Parsons@f40.n382.z1.fidonet.org (Ron  
Parsons) writes:

>>I need a set of 2-line Keps for the Moon.  
>>Ron W5RKN

>I've been told that Keps are not sufficient to describe the orbit of the  
>Moon. My understanding is that a Keplerian Element set could be made that  
>would be valid for a short while (days?) but would quickly drift.

Then how accurate is the IT tracking program for the moon. The

keps have not been updated since the program was written. At least I haven't seen them in the NASA updates.

George

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Date: Tue, 19 Oct 1993 16:06:19 GMT  
From: spsgate!mogate!newsgate!news@uunet.uu.net  
Subject: SAREX info?  
To: ham-space@ucsd.edu

Anyone know the shuttle freqs? Is the downlink still 145.55 as in past missions? What modes will they be using...packet, voice, ATV?

Thanks & 73... Mark AA7TA

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Date: Mon, 18 Oct 1993 17:07:36 GMT  
From: yeshua.marcam.com!zip.eecs.umich.edu!destroyer!nntp.cs.ubc.ca!alberta!nebulus!ve6mgs!usenet@uunet.uu.net  
Subject: STS-58 SAREX Mission Lifts Off  
To: ham-space@ucsd.edu

SB SAREX @ AMSAT \$STS-58.002  
STS-58 SAREX Mission Lifts Off

The STS-58 mission commenced today with a spectacular liftoff amid sunny skies at the Kennedy Space Center. Liftoff of the Space Shuttle Columbia was 10 seconds late due to an intruding aircraft in the expected Shuttle flight path. As a result, liftoff occurred at 14:53:10 UTC. The primary objective of this 14 day, high inclination (39 degrees) flight is to perform human and animal life science experiments as part of the Spacelab Life Sciences-2 (SLS-2) payload. Also on board is the Shuttle Amateur Radio Experiment (SAREX).

The following represents the latest Keplerian Element set as generated by Gil Carman, WA5NOM, of the Johnson Space Center.

STS-58  
1 00058U 93291.67759365 .00119475 00000-0 26040-3 0 88  
2 00058 39.0114 128.6506 0007676 272.4217 87.5676 15.96123499 22

Satellite: STS-58  
Catalog number: 00058  
Epoch time: 93291.67759365 = (18 OCT 93 16:15:44.09 UTC)  
Element set: 008

Inclination: 39.0114 deg  
RA of node: 128.6506 deg  
Eccentricity: .0007676  
Arg of perigee: 272.4217 deg  
Mean anomaly: 87.5676 deg  
Mean motion: 15.96123499 rev/day  
Decay rate: 1.19475e-03 rev/day^2  
Epoch rev: 2  
Checksum: 327

Space Shuttle Flight STS-58  
Prelaunch Element set JSC-008  
Launch: 18 OCT 93 14:53:10 UTC

Gil Carman, WA5NOM  
NASA Johnson Space Center

Submitted by Frank H. Bauer, KA3HDO for the SAREX Working Group

/EX

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Date: 19 Oct 93 21:33:48 GMT  
From: ogicse!uwm.edu!math.ohio-state.edu!howland.reston.ans.net!agate!sdp1!  
marchant@network.ucsd.edu  
Subject: STS-58 SAREX status???  
To: ham-space@ucsd.edu

Hi Folks:

I've listened in to all the STS-58 passes for Northern California and haven't heard a peep out of the SAREX package. Anybody heard or worked it? Anybody willing to volunteer hard info? Thanks!

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Will Marchant                      Center for Extreme Ultraviolet Astrophysics  
marchant@cea.berkeley.edu        University of California  
KC6ROL@N0ARY                      2150 Kittredge St., Berkeley, CA 94720 USA

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End of Ham-Space Digest V93 #60

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